

## Estimation Procedures

Situation	History	Procedure	Participants Comments
1.a. kWh estimate  At least one years history available.	Same customer same premise.	<p>A) Use same month last year B) Previous Month C) Prior year/prior month (customer average daily usage for same season last year or current season).</p> <p>Utilities use different combinations of these methodologies to estimate bills but all 3 procedures are considerations. PSWG concludes that these methods comply with R14-2-210.</p>	<p>APS same process. Mohave – same process. Navopache – please clarify. SRP same process. SSVEC same process. TEP same process. UNS ELECTRIC same process.</p>
1.b. kWh estimate  Limited History	Same customer same premise. History available for less than a year.	Estimates are based on previous month's usage in same season, load profile, or similar customers.	<p>APS uses per day usage with seasonal considerations. Mohave – needs clarification on this situation. Navopache – please clarify. SRP would estimate manually on history or get a check read. SSVEC – Over 10 days bill at zero. TEP uses load profile of like customers. UNS ELECTRIC uses load profile of like customers.</p>
	New customer with premise history. A years worth of premise history is available.	Estimates are based on previous month's usage in same season, load profiling, or similar customers.	<p>APS uses seasonal evaluations averaging most recent seasonal use. Per diem average for partial months. Navopache – please clarify. SRP uses Customer Usage (CUP) Patterns of like accounts and manually estimates. SSVEC – Over 10 days bill at zero with basic charges. Mohave – If what is meant is that we have less than a years worth of history, then we would prorate the bill to the normal read date. TEP uses trending and load profiling on premise history. UNS ELECTRIC 5 days or less will hold over until next months bill. 5 days or more will send serviceman out to get good read.</p>

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1.c. kWh estimate  No history	New customer new premise.	Utilities use a variety of “rule-of-thumb” estimates for the first bill with no account history. This first bill may be adjusted when the next valid read is obtained.	APS - less than 10 days, no estimate. Over 10 days, 20 kWh per day on initial bill, estimate thereafter using the “estimator”. APS uses class daily average or “minimum usage”. Grand Canyon- no consumption would be billed but basic charges would be applied. SSVEC over 10 days bill at zero with basic charges. Mohave would prorate the bill to the normal read date. Navopache – please clarify. SRP - 15 days or less will hold over until next months bill. More than 15 days SRP will manually estimate or issue a check read for actual read that can be prorated to read date. TEP would estimate with Segment profiling. TRICO -no read, no bill. UNS ELECTRIC 5 days or less will hold over until next months Bill. 5 days or more, will send serviceman out to get good Read.
2.b. kW estimate  Limited History	Same customer same premise. History available for less than a year.		APS – Same as 2.a. SRP – Same as 2.a. TEP – Same as 2.a. UNS ELECTRIC -
2. c. kW estimate.  No history	New customer new premise. History available for less than a year		APS – Same as 2.a. SRP – Same as 2.a. TEP – Same as 2.a. UNS ELECTRIC -
	New customer new premise.		APS – Same as 2.a. SRP – Same as 2.a. TEP – Same as 2.a. UNS ELECTRIC -
3. a.TOU estimate.  At least one years history available.	Same customer same premise.	On/Off Peak energy percentages are from either customer or class average applied to estimated kWh energy.	APS has approximately 350,000 TOU customers. APS applies the rate class seasonal average on/off energy percentages to the kWh estimated per Section 1 above. (Patti is reviewing this comment with Robbie). SRP – same procedure used for estimating a kWh meter listed previously.

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			TEP CIS system will estimate On/Off peak but shoulder has to be manually estimated using trend analysis. UNS ELECTRIC -
3. b. TOU estimate.  Limited history	Same customer same premise. History available for less than a year.	On/Off Peak energy percentages are from either customer or class average applied to estimated kWh energy.	APS – Same as 3.a. SRP would estimate manually on history or get a check read TEP CIS system will estimate On/Off peak but shoulder has to be manually estimated using load profiling of like customers. UNS ELECTRIC -
3. c.TOU estimate.  No history	New customer with premise history. History available for a year.	On/Off Peak energy percentages are from either customer or class average applied to estimated kWh energy.	APS – Same as above 3.a. SRP uses Customer Usage (CUP) Patterns of like accounts and manually estimates. TEP – Use load profiling manually. UNS ELECTRIC -
	New customer new premise. History available for less than a year	On/Off Peak energy percentages are from either customer or class average applied to estimated kWh energy.	APS – Same as above 3.a. SRP – same procedure used for estimating a kWh meter listed previously TEP – Use load profiling manually. UNS ELECTRIC -
	Same customer same premise. History available for less than a year.	On/Off Peak energy percentages are from either customer or class average applied to estimated kWh energy.	APS – Same as above 3.a. SRP would estimate manually on history or get a check read TEP – Use load profiling manually. UNS ELECTRIC -
3. b. TOU estimate.  Limited history	New customer new premise.	On/Off Peak energy percentages are from either customer or class average applied to estimated kWh energy.	APS – Same as 3.a. SRP – 15 days or less will hold over until next months bill. More than 15 days will manually estimate or issue a check read for actual read that can be prorated to read date. TEP CIS system will estimate On/Off peak but manually have to estimate shoulder using trending analysis. UNS ELECTRIC -